

Work Order ID 145757

Friday, May 06, 2016 10:45:37 AM

145757

Page 1

Item ID: D3500-1 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Saddle
 Start Date: 4/27/2016 Start Qty: 20.00 ***20*** Cust Item ID:
 Required Date: 5/5/2016 Req'd Qty: 20.00 ***20*** Customer:
 Reference:

Approvals: Process Plan: dem Date: 16/05/09 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D3500	C								

100 0.15
100 HAAS CNC VERTICAL MACHINING #1 DAS 44 16-06-27
 HAAS 1 4.20 49
 HAAS CNC vertical machine #1
 Memo
 Program Batch No. 145757 Double check by: 0.80 1-Machine Step No 1
 per Folio FA641 and inspect per attached Dimension Sheets2-Machine Step
 No 2 per Folio FA641and inspect per attached Dimension Sheets3-Machine
 Step No 3 per Folio FA641 and inspect p

110 0.00
110 QC1- Inspection performed by CMM DAS 44 16-06-27
 QC 0.20
 Quality Control
 Memo
 Inspect on CMM as per folio CMMA031.
 DWG REV: C
 CMM PROG. REV: _____

120 0.00
120 QC8- Inspect parts - second check DAS 44 16-06-29
 QC 0.40
 Quality Control
 Memo

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐			
Design ☐	☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐			
Doc/Data ☐	☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐			
Equip/Tooling ☐	☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐			
Handling/Pre ☐	☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐			
Material ☐	☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐			
Internal Transport ☐	☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐			
Tribal Knowledge ☐	☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐			
LOA ☐	☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐			
Substation ☐	☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐			
Past Expiry Date ☐	☐	Manufacturing Process ☐	OTHER :						
Misidentified ☐	☐	Past Due ☐							

Work Order ID 145757

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Page 2

Item ID: D3500-1 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Saddle
 Start Date: 4/27/2016 Start Qty: 20.00 ***20*** Cust Item ID:
 Required Date: 5/5/2016 Req'd Qty: 20.00 ***20*** Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Chemical Conversion Coat per QSI005 4.1	0.00							
130									
HandFinish	Memo	0.60							
Hand Finishing									
140	White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum	0.00							
140									
Powdercoat	Memo	0.60							
Powder Coating	START TIME: <u>10:45</u> OVEN TEMPERATURE: <u>300</u> FINISH TIME: <u>11:15</u>								
150	QC3- Inspect Part Finish	0.00							
150									
QC	Memo	0.20							
Quality Control									

BEB

20/6/07/07

20 34 00

20 0 16-07-7 20 34 00

20

JUL 07 2016

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

Work Order ID 145757

Friday, May 06, 2016 10:45:37 AM

145757

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Item ID: D3500-1

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Saddle

Start Date: 4/27/2016 Start Qty: 20.00

20

Cust Item ID:

Required Date: 5/5/2016 Req'd Qty: 20.00

20

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
160	Identify as per dwg & Stock Location: <u>ST406</u>	0.00							
160									
Packaging	Memo	0.20			DAS 6 9-89	<u>20</u>		<u>PC</u>	JUL 07 2016
Packaging									
170	QC21- Final Inspection - Work Order Release	0.00							
170									
QC	Memo	2.00							<u>16/7/12</u> <u>JD</u>
Quality Control									

DAS
21
9-89

JUL 08 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____	

Picklist Print

Friday, May 06, 2016 10:45:37 AM

Page 1

Work Order ID: 145757

145757

Parent Item: D3500-1

D3500-1

Parent Item Name: Saddle

Start Date: 4/27/2016

Required Date: 5/5/2016

Start Qty: 20.00

Required Qty: 20.00

Comments: IPP Rev:A New Issue 06-06-15 JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6102-013		Manufactured	No			100	Each	9.0000	1	20			
D6102-013									**			B.A 16/06/23	
Saddle Billet													

Location

Loc Qty

Loc Code

MAT046

9

→ 139703

9

→ 144498

9.0

11.0

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								

DART AEROSPACE LTD				Work Order: 145757	
Description: Saddle				Part Number: D3500-1	
Inspection Dwg: D3500 Rev: C DSK: Rev:				Page 1 of 1	

FIRST ARTICLE INSPECTION DIMENSION SHEET

				Record Actual Dimensions				
Dim	Min	Max	Go/No Go Gauge	1	2	3	4	5
A	0.483	0.490		.485	.485	.485	.485	.485
B	1.175	1.185		1.180	1.180	1.180	1.180	1.180
C	3.145	3.155		3.150	3.150	3.150	3.150	3.150
D	1.175	1.185		1.180	1.180	1.180	1.180	1.180
E	0.365	0.385		.380	.380	.380	.380	.380
F	0.490	0.510		.500	.498	.498	.499	.498
H	R0.515	R0.535		.525	.525	.525	.525	.525
(Note: Dimension I is 0.015" over flange)								
I	R1.575	R1.595		1.588	1.588	1.588	1.588	1.588
J	0.240	0.260		.245	.248	.247	.249	.250
K	0.490	0.510		.500	.500	.500	.500	.500
L	3.590	3.650		3.620	3.620	3.620	3.620	3.620
M	0.315	0.322		.316	.316	.316	.316	.316
N	0.256	0.262		.258	.258	.258	.258	.258
O	6.500	6.520		6.507	6.507	6.508	6.508	6.508
P	5.990	6.010		6.000	6.000	6.000	5.997	5.997
Q	2.820	2.830		2.825	2.825	2.825	2.825	2.825
R	2.495	2.505		2.500	2.500	2.500	2.500	2.500
S	2.245	2.255		2.250	2.250	2.250	2.250	2.250
T	1.120	1.130		1.125	1.125	1.125	1.125	1.125
U	0.540	0.560		.548	.548	.548	.547	.549
V	0.793	0.803		.798	.798	.798	.798	.798
W	R.240	R.260		.250	.250	.250	.250	.250
X	0.040	0.060		.050	.050	.050	.050	.050
Y	0.100	0.120		.105	.105	.105	.105	.105
AA	R1.125	R1.145		1.134	1.134	1.135	1.134	1.135
AB	R.490	R.510		.500	.500	.500	.500	.500
AC	0.615	0.635		.635	.635	.635	.635	.635
AD	0.240	0.260		.255	.256	.256	.256	.257
AE	1.810	1.830		1.820	1.820	1.822	1.822	1.822
AF	0.240	0.260		.251	.250	.251	.250	.251
AG	0.140	0.160		.150	.150	.151	.151	.150
AH	0.140	0.160		.156	.157	.156	.157	.156
AI	0.140	0.160		.154	.154	.156	.154	.154

DAS Accept/Reject

Measured by: 44 S-89	Date: 16-06-27
Audited by: [Signature]	Date: 16-6-29
Preliminary Approval:	Date:

Rev	Date	Change	Revised by	Approved
A	06.09.26	New Issue	KJ/EC	
B	08.10.07	Dimension H removed	KJ/DD	
C	08.11.28	Dimension 'M' revised	KJ/EC	
D	11.01.17	Note added to Dim I	KJ	
E	15.02.26	Dimension H added	KJ	[Signature]

DART AEROSPACE LTD				Work Order: 145757	
Description: Saddle				Part Number: D3500-1	
Inspection Dwg: D3500 Rev: C DSK: Rev:				Page 1 of 1	

FIRST ARTICLE INSPECTION DIMENSION SHEET

Dim	Min	Max	Go/No Go Gauge	Record Actual Dimensions				
				6	7	8	9	10
A	0.483	0.490		.485	.485	.485	.485	.485
B	1.175	1.185		1.180	1.180	1.180	1.180	1.180
C	3.145	3.155		3.150	3.150	3.150	3.150	3.150
D	1.175	1.185		1.180	1.180	1.180	1.180	1.180
E	0.365	0.385		.380	.380	.380	.380	.380
F	0.490	0.510		.500	.499	.499	.498	.499
H	R0.515	R0.535		.525	.525	.525	.525	.525
(Note: Dimension I is 0.015" over flange)								
I	R1.575	R1.595		1.588	1.589	1.583	1.584	1.584
J	0.240	0.260		.249	.249	.248	.249	.249
K	0.490	0.510		.500	.500	.500	.500	.500
L	3.590	3.650		3.620	3.620	3.620	3.620	3.620
M	0.315	0.322		.316	.316	.316	.316	.316
N	0.256	0.262		.258	.258	.258	.258	.258
O	6.500	6.520		6.508	6.508	6.508	6.508	6.508
P	5.990	6.010		5.998	5.998	5.997	5.999	5.998
Q	2.820	2.830		2.825	2.825	2.825	2.823	2.825
R	2.495	2.505		2.500	2.500	2.500	2.500	2.500
S	2.245	2.255		2.250	2.250	2.250	2.250	2.250
T	1.120	1.130		1.125	1.125	1.125	1.125	1.125
U	0.540	0.560		.548	.549	.549	.549	.548
V	0.793	0.803		.798	.798	.798	.798	.798
W	R.240	R.260		.250	.250	.250	.250	.250
X	0.040	0.060		.050	.050	.050	.050	.050
Y	0.100	0.120		.105	.105	.105	.105	.105
AA	R1.125	R1.145		1.134	1.134	1.133	1.134	1.134
AB	R.490	R.510		.500	.500	.500	.500	.500
AC	0.615	0.635		.635	.635	.635	.635	.635
AD	0.240	0.260		.257	.256	.256	.257	.256
AE	1.810	1.830		1.822	1.822	1.822	1.822	1.822
AF	0.240	0.260		.251	.251	.250	.251	.251
AG	0.140	0.160		.151	.151	.150	.151	.151
AH	0.140	0.160		.152	.153	.153	.153	.154
AI	0.140	0.160		.150	.150	.148	.148	.150

DAS Accept/Reject

Measured by: 44	Date: 16-06-28
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Audited by: 11	Date: 16-06-29
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Preliminary Approval:	Date:
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Rev	Date	Change	Revised by	Approved
A	06.09.26	New Issue	KJ/EC	
B	08.10.07	Dimension H removed	KJ/DD	
C	08.11.28	Dimension 'M' revised	KJ/EC	
D	11.01.17	Note added to Dim I	KJ	
E	15.02.26	Dimension H added	KJ	

DART AEROSPACE LTD				Work Order: 145751	
Description: Saddle				Part Number: D3500-1	
Inspection Dwg: D3500 Rev: C DSK: Rev:				Page 1 of 1	

FIRST ARTICLE INSPECTION DIMENSION SHEET

Dim	Min	Max	Go/No Go Gauge	Record Actual Dimensions				
				11	12	13	14	15
A	0.483	0.490		.485	.485	.485	.485	.485
B	1.175	1.185		1.180	1.180	1.180	1.180	1.180
C	3.145	3.155		3.150	3.150	3.150	3.150	3.150
D	1.175	1.185		1.180	1.180	1.180	1.180	1.180
E	0.365	0.385		.380	.380	.380	.380	.380
F	0.490	0.510		.500	.499	.500	.500	.497
H	R0.515	R0.535		.525	.525	.525	.525	.525
(Note: Dimension I is 0.015" over flange)								
I	R1.575	R1.595		1.583	1.582	1.583	1.583	1.583
J	0.240	0.260		.249	.249	.247	.250	.249
K	0.490	0.510		.500	.500	.500	.500	.500
L	3.590	3.650		3.620	3.620	3.620	3.620	3.620
M	0.315	0.322		.316	.316	.316	.316	.316
N	0.256	0.262		.258	.258	.258	.258	.258
O	6.500	6.520		6.509	6.509	6.508	6.508	6.509
P	-5.990	6.010		5.997	5.998	5.998	5.998	5.997
Q	2.820	2.830		2.825	2.825	2.825	2.825	2.825
R	2.495	2.505		2.500	2.500	2.500	2.500	2.500
S	2.245	2.255		2.250	2.250	2.250	2.250	2.250
T	1.120	1.130		1.125	1.125	1.125	1.125	1.125
U	0.540	0.560		.548	.548	.549	.549	.550
V	0.793	0.803		.798	.798	.798	.798	.798
W	R.240	R.260		.250	.250	.250	.250	.250
X	0.040	0.060		.050	.050	.050	.050	.050
Y	0.100	0.120		.105	.105	.105	.105	.105
AA	R1.125	R1.145		1.134	1.134	1.134	1.134	1.134
AB	R.490	R.510		.500	.500	.500	.500	.500
AC	0.615	0.635		.635	.635	.635	.635	.635
AD	0.240	0.260		.256	.256	.256	.256	.257
AE	1.810	1.830		1.821	1.822	1.821	1.821	1.822
AF	0.240	0.260		.251	.251	.251	.251	.250
AG	0.140	0.160		.150	.151	.151	.151	.150
AH	0.140	0.160		.154	.154	.154	.154	.154
AI	0.140	0.160		.149	.147	.148	.151	.149
DAS Accept/Reject				✓	✓	✓	✓	✓

Measured by: 44	Date: 16-06-28
Audited by: 989	Date: 16-6-29
Preliminary Approval:	Date:

Rev	Date	Change	Revised by	Approved
A	06.09.26	New Issue	KJ/EC	
B	08.10.07	Dimension H removed	KJ/DD	
C	08.11.28	Dimension 'M' revised	KJ/EC	
D	11.01.17	Note added to Dim I	KJ	
E	15.02.26	Dimension H added	KJ	

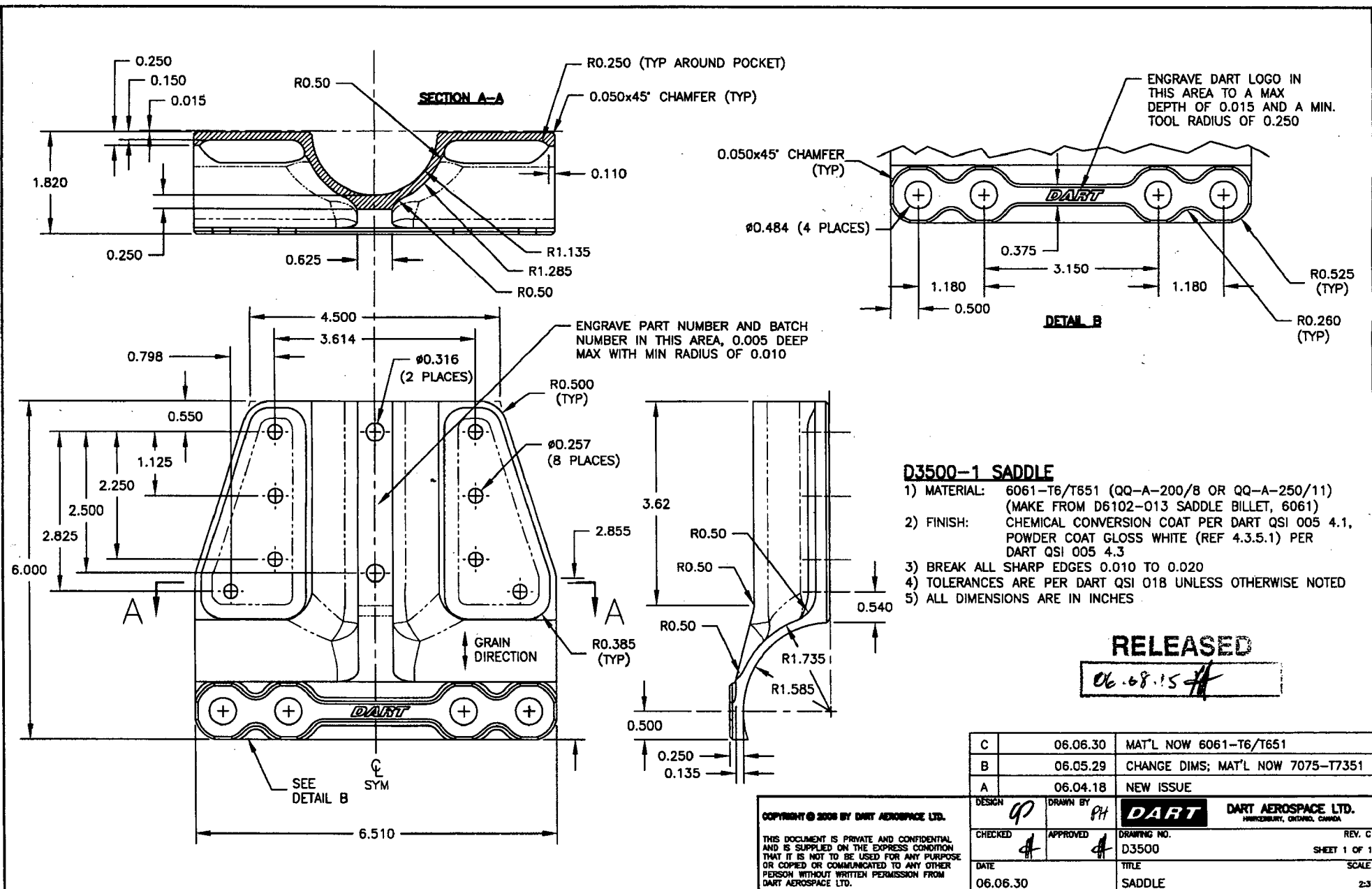
DART AEROSPACE LTD		Work Order:	145757
Description: Saddle		Part Number:	D3500-1
Inspection Dwg: D3500	Rev: C	DSK:	Rev:
			Page 1 of 1

FIRST ARTICLE INSPECTION DIMENSION SHEET

Dim	Min	Max	Go/No Go Gauge	Record Actual Dimensions				
				16	17	18	19	20
A	0.483	0.490		.485	.485	.485	.485	.485
B	1.175	1.185		1.180	1.180	1.180	1.180	1.180
C	3.145	3.155		3.150	3.150	3.150	3.150	3.150
D	1.175	1.185		1.180	1.180	1.180	1.180	1.180
E	0.365	0.385		.380	.380	.380	.380	.380
F	0.490	0.510		.497	.500	.498	.500	.500
H	R0.515	R0.535		.525	.525	.525	.525	.525
(Note: Dimension I is 0.015" over flange)								
I	R1.575	R1.595		1.582	1.583	1.583	1.583	1.583
J	0.240	0.260		.249	.247	.248	.247	.247
K	0.490	0.510		.500	.500	.500	.500	.500
L	3.590	3.650		3.620	3.620	3.620	3.620	3.620
M	0.315	0.322		.316	.316	.316	.316	.316
N	0.256	0.262		.258	.258	.258	.258	.258
O	6.500	6.520		6.508	6.508	6.508	6.508	6.508
P	5.990	6.010		5.999	5.998	5.999	5.998	5.997
Q	2.820	2.830		2.825	2.825	2.825	2.825	2.825
R	2.495	2.505		2.500	2.500	2.500	2.500	2.500
S	2.245	2.255		2.250	2.250	2.250	2.250	2.250
T	1.120	1.130		1.125	1.125	1.125	1.125	1.125
U	0.540	0.560		.550	.548	.548	.549	.548
V	0.793	0.803		.798	.798	.798	.798	.798
W	R.240	R.260		.250	.250	.250	.250	.250
X	0.040	0.060		.050	.050	.050	.050	.050
Y	0.100	0.120		.105	.105	.105	.105	.105
AA	R1.125	R1.145		1.133	1.134	1.134	1.134	1.134
AB	R.490	R.510		.500	.500	.500	.500	.500
AC	0.615	0.635		.635	.635	.635	.635	.635
AD	0.240	0.260		.257	.256	.257	.257	.256
AE	1.810	1.830		1.822	1.822	1.822	1.822	1.822
AF	0.240	0.260		.256	.256	.256	.251	.251
AG	0.140	0.160		.156	.151	.151	.151	.151
AH	0.140	0.160		.153	.154	.153	.153	.153
AI	0.140	0.160		.148	.149	.147	.147	.149
DAS				Accept/Reject				

Measured by: 44	Date: 16-06-29
Audited by: SL	Date: 16-6-29
Preliminary Approval:	Date:

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w/o 145757

2m 16/05/09

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								